

PRODUCT DESCRIPTION

Stonblend GSI is a nominal 5 mm flooring system that offers a cost-effective alternative to terrazzo. It combines decorative looks with excellent chemical, wear, stain and UV resistance. It is comprised of:

Stonblend Primer

A two-component, penetrating, epoxy primer

Stonblend GSI Base

A three-component, trowelled mortar consisting of epoxy resin, curing agent and coloured quartz silica aggregate

Stonblend Groutcoat

A two-component, clear, epoxy sealer

Stonkote CE4

A two-component, clear, levelling epoxy sealer

Stonseal CF7

A two-component, clear flat, high performance, water-based, VOC compliant polyurethane coating

SYSTEM OPTIONS

Waterproofing

To ensure that the entire system is watertight, the use of Stonhard's Stonproof ME7 membrane is required with strict adherence to application instructions.

Cove Base

To provide an integral seal at the joint between the floor and the wall cove bases in heights from 5 to 15 cm are available.

PACKAGING

Stonblend ESD is packaged in units for easy handling. Each unit consists of:

Stonblend GSI Base

- 2 cartons, each containing:
 - 6 foil bags of Amine
 - 6 poly bags of Resin
- 12 individual bags of part C aggregate

Stonblend Groutcoat

- 1 carton containing:
 - 2 foil bags of Amine
 - 2 poly bags of Resin

Stonkote CE4

- 0.25 carton, 1 carton containing:
 - 6 foil bags of Amine
 - 6 poly bags of Resin

Stonseal CF7

- 1 carton containing:
 - 1 foil bags of Isocyanate
- (1) 4 litre pail of Polyol

COVERAGE

Each unit of Stonblend GSI will cover approximately 18.6 m² of surface at a nominal 5 mm thickness.

USGBC LEED RATING

Stonblend GSI meets the requirements of LEED.

- MR Credit 1 – Building Reuse
- MR Credit 2 – Construction Waste Management
- IEQ Credit 4 – Low Emitting Materials
- VOC content of the total system <100 g/l

PHYSICAL CHARACTERISTICS

Compressive Strength	41 N/mm ²
(ASTM C-579)	after 7 days
Tensile Strength	10 N/mm ²
(ASTM C-307)	
Flexural Strength	15 N/mm ²
(ASTM C-580)	
Flexural Modules of Elasticity.....	3.4 x 10 ³ N/mm ²
(ASTM C-580)	
Hardness	85 to 90
(ASTM D-2240, Shore D)	
Impact Resistance	> 18 Nm
(ASTM D-2794)	
Abrasion Resistance	0.06 gm* max. weight loss
(ASTM D-4060, CS-17)	
Flammability	Class 1
(ASTM E-648)	
Thermal Coefficient of	
Linear Expansion	1,8 x 10 ⁻² mm/m°C
(ASTM C-531)	
VOC content	Stonblend Primer – 75 g/L
(ASTM D-2369, method E)	Stonblend GSI Base – 17 g/L
.....	Stonkote CE4 – 34 g/L
.....	Stonblend Groutcoat – 52 g/L
.....	Stonseal CF7 – 47 g/L (Method C)
Cure rate	12 hours for foot traffic
(@ 25°C)	24 hours for normal operations

Note: The above physical properties were measured in accordance with the referenced standards. Samples of the actual floor system, including binder and filler, were used as test specimens. All sample preparation and testing are conducted in a laboratory environment, values obtained on field applied materials may vary and certain test methods can only be conducted on lab made test coupons.

STORAGE CONDITIONS

Store all components of Stonblend GSI between 16 to 30°C in a dry area. Avoid excessive heat and do not freeze. The shelf life is 3 years in the original, unopened container except for Stonseal CF7 which is one year.

COLOUR

Stonblend GSI is available in 12 standard colours. Refer to the Stonblend colour sheet. Custom colours are available upon request.

SUBSTRATE

Stonblend GSI, with the appropriate primer, is suitable for application over concrete, wood, brick, quarry tile, metal or Stonhard Stonset grouts. For questions regarding other possible substrates or an appropriate primer, contact your local Stonhard's representative or Technical Service.

SUBSTRATE PREPARATION

Proper preparation is critical to ensure an adequate bond and system performance. The substrate must be dry and properly prepared utilizing mechanical methods. Questions regarding substrate preparation should be directed to your local Stonhard's representative or Technical Service.

PRIMING

The use of Stonblend Primer is necessary for all applications of Stonblend GSI. The Stonblend Primer must be tacky during the application of Stonblend GSI. If the primer becomes tack-free, the area must be re-primed prior to continuing the application.

MIXING

- Proper mixing is critical for the product to exhibit the proper application properties, cure properties and ultimate physical properties.
- Mechanical mixing using a JB Blender (or equivalent 20 Liter pail mixer) or a larger mortar mixer (e.g., a Baugh 3 Batch Mixer) is required.
- See Stonblend GSI Directions for further details.

APPLYING


- NOT attempt to install material if the temperature of Stonblend GSI components and substrate are not within 16 to 30°C. The cure time and application proper ties of the material are severely affected at temperatures outside of this range.
- Material must be applied immediately after mixing.
- A suitable screed applicator is used to distribute the mixed Stonblend GSI onto the floor.
- Steel finishing trowels are used to compact and smooth the surface of the material to the required thickness.
- Two coats of Stonblend Groutcoat are applied to the floor wet on wet and are allowed to cure.
- Stonkote CE4 is applied to the floor and allowed to cure.
- Two coats of Stonseal CF7 is applied to the floor and allowed to cure.
- Detailed application instructions can be found in the Stonblend GSI Directions.

NOTES

- All material on-site must be counted and all lot numbers recorded. If more than one lot number of Part C (Stonblend Aggregate) is found, provisions must be made for blending the different lot numbers to produce one uniform colour. Contact Stonhard's Technical Service Department for additional details.
- Procedures for maintenance of the flooring system during operations are described in the Stonkleen Floor Cleaning Procedures Brochure.
- Specific information regarding chemical resistance is available in the Stonblend Chemical Resistance Guide.
- Safety Data Sheets for Stonblend GSI are available online at www.stonhard.com, choose country and under products or upon request.
- A staff of technical service engineers is available to assist with installation or to answer questions related to our flooring products specifically or flooring problems in general.
- Requests for technical service or literature can be made through local sales representatives and offices, or corporate offices located worldwide.
- The appearance of all floor, wall and lining systems will change over time due to normal wear, abrasion, traffic and cleaning. Generally, high gloss coatings are subject to a reduction in gloss, while matte finish coatings can increase in gloss level under normal operating conditions.
- Surface texture of resinous flooring surfaces can change over time as a result of wear and surface contaminants. Surfaces should be cleaned regularly and deep cleaned periodically to ensure no contaminant build up occurs. Surfaces should be periodically inspected to ensure they are performing as expected and may require traction enhancing maintenance to ensure they continue to meet expectations for the particular area and conditions of use.

CE MARKING

The harmonized European Standard EN 13813 "Screed material and floor screeds - Screed materials - Properties and requirements" specifies the requirements for screed materials for use in floor construction internally. Resinous flooring systems as well as resinous screeds fall under this specification, they have to be CE-labelled as **per Annex ZA., Table ZA.1.5 and 3.3** and fulfil the requirements of the given mandate of the Construction Products Regulation no. 305/2011

	
StonCor Europe Rue du Travail 9 1400 Nivelles, Belgium 20	
DOP-2013.02.001 EN 13813 SR-AR1.0-B2.0-IR18	
Synthetic resin flooring system for use in buildings (system as per Product Data Sheet)	
Reaction to fire:	Bfl-S1
Release of corrosive substances:	SR
Wear resistance:	AR1.0
Adhesion strength by pull-off:	> B2.0
Impact resistance:	IR18
Chemical resistance:	CRG*
*CRG: See Stonhard Chemical Resistance Guide	

IMPORTANT:

Stonhard believes the information contained here to be true and accurate as of the date of publication. Stonhard makes no warranty, expressed or implied, based on this literature and assumes no responsibility for consequential or incidental damages in the use of the systems described, including any warranty of merchantability or fitness. Information contained here is for evaluation only. We further reserve the right to modify and change products or literature at any time and without prior notice.

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